

Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY. DOCKET LO29-016		10/512100	
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)					APPLICANT Meltzer et al.			
					FILING DATE 10/21/04		GROUP AU2873	
U.S. PATENT DOCUMENTS								
*Examiner Initial	Class	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
[Handwritten mark]	AA	4,195,913	04/80	Dourte et al.	[Handwritten mark]			
	AB	4,277,141	07/81	Kleiber				
	AC	4,389,115	06/83	Richter				
	AD	6,166,868	12/00	Holderer et al.				
	AE	4,038,971	08/77	Bezborodko				
	AF	4,236,296	12/80	Woolhouse et al.				
	AG	4,740,276	04/88	Marmo et al.				
	AH	5,891,317	04/99	Teichmann et al.				
	AI	6,369,959	04/02	Trunz et al.				
	AJ	6,503,383	01/03	Holderer et al.				
	AK	4,710,276	12/87	Kull				
AL	3,917,385	11/75	Caswell					
FOREIGN PATENT DOCUMENTS								
		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
[Handwritten mark]	AM	WO99 66542	12/99	PCT	[Handwritten mark]			
	AN	DE 100 15 953	10/00	Germany				
	AO	WO86 05281	09/86	PCT				
	AP							
	AO							
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)								
[Handwritten mark]	AR		Ellis, "Low-cost Bimorph Mirrors in Adaptive Optics," Imperial College of science, Technology & Medicine, University of London, 1999.					
[Handwritten mark]	AS		Sato et al., Adaptive PVDF piezoelectric deformable mirror system," Applied Optics, Vol. 19, No. 9, 1980, pages 1430-1434.					
[Handwritten mark]	AT		Sato et al., "Multilayered deformable mirror using PVDF films," Applied Optics, Vol. 21, No. 20, 1982, pages 3664-3668.					
EXAMINER LOHA BEN				DATE CONSIDERED 6/9/06				
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					FILING DATE 10/21/04	GROUP AU2873	
U.S. PATENT DOCUMENTS							
* Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>by</i>	AA	6,275,344	08/01	Holderer			
	AB	6,307,688	10/01	Merz et al.			
	AC	6,580,570	06/03	Becker et al.			
	AD	6,603,615	08/03	Melzer et al.			
	AE	5,428,482	06/95	Bruning et al.			
	AF	5,537,262	07/96	Aoki et al.			
	AG	6,252,712	06/01	Furter et al.			
	AH	6,229,657	05/01	Holderer et al.			
	AI	6,552,862	04/03	Dieker			
	AJ	3,837,125	09/74	Johnson			
	AK	6,373,552	04/02	Braat et al.			
<i>by</i>	AL	6,259,571	07/02	Holderer et al.			
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation
							Yes No
	AM						
	AN						
	AO						
	AP						
	AO						
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)							
<i>by</i>	AR		Sato et al., "Transmission-type PVDF 2-D optical phase modulator," Applied Optics, Vol. 20, No. 2, 1981, pages 343-350.				
<i>by</i>	AS		Ro et al., "Vibration Control of Plates Using Self-Sensing Active Constrained Layer Damping," SPIE Vol. 3672, 1999, pages 200-209.				
<i>by</i>	AT		Krug et al., Application of a 6 x 8 Silicon APD Array and Hybrid Electronics for Scannerless 3D Imaging Ladar, NATO/IRIS Active Systems, 1995, Vol. II, pages 79-89.				
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SERIAL NO.

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LIST OF ART CITED BY APPLICANT
(Use several sheets if necessary)APPLICANT
Melzer et al.

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10/21/04

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U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
WJ	AA	4,959,531	09/90	Marino			
	AB	6,727,984 B2	04/04	Becht (LO33-001)			
	AC	4,380,391	04/83	Buser, et al.			
	AD	6,246,822 B1	06/01	Kim, et al.			
	AE	5,079,414	01/92	Martin			
	AF	4,674,874	06/87	Halldorsson et al.			
	AG	4,672,439	06/87	Florence et al.			
	AII	6,521,892 B2	02/03	Emanuel et al.			
	AI	4,865,454	09/89	Lazzarini et al.			
	AJ	4,202,605	05/80	Heinz			
	AK	5,986,795	11/99	Chapman, et al.			
WJ	AL	5,428,482	06/95	Bruning, et al.			

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	AM							
	AN							
	AO							
	AP							
	AQ							

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)

WJ	AR	Burns et al., "Compact, Multichannel receiver using InGaAs APDs for single pulse, eye-safe, laser radar imagery," SPIE Vol. 3065, 1997, pages 22-29.
WJ	AS	Schulz et al., "Calibration of an interferometer for testing cylindrical surfaces," 1995 Elsevier Science, pages 512-520.
	AT	

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DATE CONSIDERED

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LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)					APPLICANT Melzer et al.		
					FILING DATE 10/21/04	GROUP AU2873	
U.S. PATENT DOCUMENTS							
*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
[Handwritten mark]	AA	5,026,977	06/91	Hubbard, Jr.			
	AB	6,411,426	06/02	Meehan et al.			
	AC	5,719,846	02/98	Matoba et al.			
	AD	6,496,466	12/02	Lee et al.			
	AE	6,585,379	07/03	Yokoyama et al.			
	AF	6,566,627	05/03	Brandinger et al.			
	AG	4,295,710	10/81	Heinz			
	AH	5,485,053	01/96	Boz			
	AI	6,633,107	10/03	Calabro et al.			
	AJ	5,724,017	03/98	Pla et al.			
	AK	6,296,811	10/01	Sasaki			
[Handwritten mark]	AL	6,405,533	06/02	Rostegar et al.			
	FOREIGN PATENT DOCUMENTS						
	Document Number	Date	Country	Class	Subclass	Translation	
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OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)							
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LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)					APPLICANT Meltzer et al.			
					FILING DATE 10/21/04		GROUP AU 2873	
U.S. PATENT DOCUMENTS								
* Examiner Initial	Class	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
[Handwritten squiggle]	AA	4,849,668	07/89	Crawley et al.				
	AB	6,252,334	06/01	Nye et al.				
	AC	6,108,121	08/00	Mansell et al.				
	AD	6,208,407 B1	03/01	Loopstra				
	AE	6,160,628	12/00	Inoue				
	AF	4,348,090	09/82	Iizuka				
	AG	6,392,825	05/02	Trunz et al.				
	AH	6,473,247	10/02	Keller et al.				
	AI	6,501,605	12/02	Moriya				
	AJ	6,653,887	11/03	Haeusser-Boehm et al.				
	AK	6,337,484	01/02	Loopstra et al.				
[Handwritten squiggle]	AL	6,054,784	04/00	Sperling et al.				
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*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
[Handwritten mark]	AA	5,870,133	02/99	Naiki	[Handwritten mark]	[Handwritten mark]		
	AB	5,784,355	07/98	Abe				
	AC	5,642,237	06/97	Miyawaki et al.				
	AD	5,204,712	04/93	Bouwer et al.				
	AE	4,967,088	10/90	Stengl et al.				
	AF	4,953,965	09/90	Iwase et al.				
	AG	4,408,874	10/83	Zinky et al.				
	AH	4,060,315	11/77	Heinz				
	AI	3,077,958	02/63	Grimsey				
	AJ	6,594,057	07/03	Drake et al.				
[Handwritten mark]	AK	6,509,670	01/03	Jeong et al.	[Handwritten mark]	[Handwritten mark]		
	AL	6,478,434	11/02	Streetman et al.				
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LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Melzer et al. FILING DATE 10/21/04 GROUP AU2873			
U.S. PATENT DOCUMENTS							
* Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
	AA	6,428,173	08/02	Dhuler et al.			
	AB	5,438,451	08/95	Schweizer			
	AC	5,132,979	07/92	Erbert			
	AD	5,074,654	12/91	Alden et al.			
	AE	4,969,726	11/90	Koning			
	AF	4,226,507	10/80	Fuschetto			
	AG	3,802,781	04/74	Wright			
	AH	4,932,770	06/90	Caravaty			
	AI	4,705,369	11/87	Humpal			
	AJ	6,290,363	09/01	Masutani			
	AK	5,694,257	12/97	Amone et al.			
	AL	5,529,277	06/96	Ostaszewski			
FOREIGN PATENT DOCUMENTS							
	Document Number	Date	Country	Class	Subclass	Translation	
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LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)					APPLICANT Metzer et al.			
					FILING DATE 10/21/04		GROUP AU2873	
U.S. PATENT DOCUMENTS								
* Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
W	AA	5,400,184	03/95	Kuklo				
	AB	4,826,304	05/89	Guch et al.				
	AC	4,722,592	02/88	Stolfi				
	AD	3,879,105	04/75	Broche et al.				
	AE	5,986,827	11/99	Hale				
	AF	5,210,650	05/93	O'Brien et al.				
	AG	4,162,120	07/79	Moreno				
	AH	5,339,720	08/94	Pellarin et al.				
	AI	4,403,421	09/83	Shepherd				
	AJ	4,092,518	05/78	Merard				
	AK	5,414,557	05/95	Phillips				
	W	AL	6,729,062	05/04	Thomas et al.			
FOREIGN PATENT DOCUMENTS								
		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	AM							
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LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)					APPLICANT Meltzer et al.			
					FILING DATE 10/21/04		GROUP A02873	
U.S. PATENT DOCUMENTS								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
LS	AA	6,537,479	03/03	Colea				
	AB	4,932,778	06/90	Parra				
	AC	6,144,511	11/00	Umetsu et al.				
	AD	5,157,555	10/92	Reno				
	AE	4,871,237	10/89	Anzai et al.				
	AF	6,252,648	06/01	Hase et al.				
	AG	6,411,368	06/02	Matsumoto et al.				
	AH	5,025,284	06/91	Komoriya et al.				
	AI	6,628,371	09/03	Ishikawa				
	AJ	6,614,504	09/03	Aoki				
	AK	6,341,006	01/02	Murayama et al.				
LS	AL	6,646,713	11/03	Ishii				
FOREIGN PATENT DOCUMENTS								
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OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)								
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U.S. PATENT DOCUMENTS								
* Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
LM	AA	6,445,516	09/02	Osterried				
LM	AB	4,659,225	04/87	Takahashi				
LM	AC	6,449,106	09/02	Spinali				
	AD							
LM	AE	2002/0163741 A1	11/02	Shibazaki				
LM	AF	2002/0176094 A1	11/02	Petasch et al.				
LM	AG	2002/0021903 A1	02/02	Ito et al.				
LM	AH	2002/0167740 A1	11/02	Osterried et al.				
	AI							
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	AL							
FOREIGN PATENT DOCUMENTS								
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LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Frank Melzer et al.		
				FILING DATE October 21, 2004	GROUP AV2873 Unassigned	
U.S. PATENT DOCUMENTS						
*Examiner Initial	Document Number	Date	Name	Class	Sub- class	Filing Date If Appropriate
	AA	6,844,994 B2	01/05	Melzer et al.		
	AB	6,829,107 B2	12/04	Osterried		
	AC	6,825,914 B2	11/04	Schroeder et al.		
	AD	6,816,325 B1	11/04	Becker et al.		
	AE	6,798,588 B2	09/04	Vogt		
	AF	6,791,768 B2	09/04	Rau		
	AG	6,768,600 B2	07/04	Dieker		
	AH	6,773,369 B1	05/04	Stacklies et al.		
	AI	6,717,742 B2	04/04	Weber		
	AJ	6,667,839 B2	12/03	Hartmaier et al.		
	AK	6,667,255 B2	12/03	Hexels		
	AL	6,594,093 B2	07/03	Moeller et al.		
	AM	6,538,829 B2	03/03	Rau et al.		
	AN	6,466,380 B2	10/02	Bischoff		
	AO	6,445,515 B2	09/02	Moennig		
	AP	6,195,201 B1	02/01	Koch et al.		
	AQ	5,737,137	04/98	Cohen et al.		
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